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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/717,908	11/21/2003	Toshio Mizue	50212-553	7355	
7590 07/26/2005 MCDERMOTT, WILL & EMERY			EXAMINER		
			KIM, ELLEN E		
600 13th Street, N.W. Washington, DC 20005-3096			ART UNIT	PAPER NUMBER	
<b>8</b> - <b>7</b>			2874		
			DATE MAILED: 07/26/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

H· À								
		Application No.	Applicant(s)					
		10/717,908	MIZUE, TOSHIO	MIZUE, TOSHIO				
Office Action Summary		Examiner	Art Unit					
		Ellen Kim	2874					
Period fo	The MAILING DATE of this communication ap or Reply	opears on the cover sheet w	ith the correspondence ad	dress				
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by stature to reply within the set or extended period for reply will, by stature to received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a ply within the statutory minimum of this will apply and will expire SIX (6) MOI te, cause the application to become A	reply be timely filed irty (30) days will be considered timely NTHS from the mailing date of this co BANDONED (35 U.S.C. § 133).	/. ommunication.				
Status	•							
1)⊠	Responsive to communication(s) filed on 11.	<i>July 2005</i> .						
2a)□	This action is <b>FINAL</b> . 2b)⊠ Th	is <b>FINAL</b> . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims			•				
4)🖂	4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
	☑ Claim(s) <u>1-6</u> is/are rejected.							
· —	Claim(s) is/are objected to.							
8)⊠	Claim(s) 7-12 are subject to restriction and/or	r election requirement.						
Applicati	ion Papers							
9)□	The specification is objected to by the Examin	ner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the E	Examiner. Note the attache	d Office Action or form PT	O-152.				
Priority (	under 35 U.S.C. § 119							
12)	Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).					
_	☐ All b)☐ Some * c)☐ None of:	•						
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documer	nts have been received in A	Application No					
۰	3. Copies of the certified copies of the price	ority documents have beer	received in this National	Stage				
	application from the International Burea	au (PCT Rule 17.2(a)).						
* 9	See the attached detailed Office action for a lis	t of the certified copies not	received.					
Attachmen	t(s)							
	e of References Cited (PTO-892)	4) Interview	Summary (PTO-413)					
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(	(s)/Mail Daté. Informal Patent Application (PTO	h-152\				
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date	6) Other:		~1 <i>32)</i>				

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## **DETAILED ACTION**

Election was made without traverse in the reply filed on 7/11/05.

Claims 1-6 are examined for examination purpose.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Minamino et al [USPAT 6,619,859].

Minamino discloses an optical module comprising:

An optical subassembly 10 including an optical device;

A housing including a base 13 and a cover 12 [fig. 11A], the base 13 having a bottom surface thereof, and the optical subassembly being provided between the base 13 and the cover 12;

A support 5 being in contact with the optical subassembly 10, the support 5 being disposed on the bottom surface of the base 13; and

A thermal sheet 6 provided between the cover 12 and the support 5.

Minamino disclose every aspect of claimed invention except for the semiconductor material.

Official Notice is taken that utilizing semiconductor material for optical module in the optical communication system for the purpose of high speed of the optical

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communication is old and well known in the art. See In Re Malcolm 1942 C.D. 589:543 O.G. 440 MPEP 706.02 (a).

Therefore, it would have been obvious to the ordinary skilled person in the art at the time the invention was made to modify Minamino's device to include semiconductor optical module for the purpose of high speed of the system.

In re claim 2, the support 5 includes a first leg portion, a second leg portion, and a bridge, wherein the cover 12 and the bridge sandwiches the thermal sheet therebetween, and the optical subassembly 10 is provided between the first and the second leg portions.

In re claim 3, Minamino disclose every aspect of claimed invention except for the solders between the optical subassembly and the first and second leg portions.

It would have been obvious to the ordinary skilled person in the art at the time the invention was made to modify Minamino's device to include the solders between the optical subassembly and the first and second leg portions for the purpose of stable alignment and high coupling efficiency of the device.

In re claim 4, the optical subassembly 10 includes an outer surface and a stem, and the support 5 having finger 5d [fig. 4] curved [inherently formed by having a groove 5f] so as to be in contact with the outer surface of the stem.

In re claim 5, the outer surface of the 10b is spaced from the bridge [the edge whereon the leg portions 5cs are disposed, see fig. 5, near 5j].

In re claim 6, Minamino disclose every aspect of claimed invention except for the solders between the stem and the finger.

It would have been obvious to the ordinary skilled person in the art at the time the invention was made to modify Minamino's device to include the solders between the stem and the finger for the purpose of stable alignment and high coupling efficiency of the device.

## Conclusion

In formation regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

For all official patent application related correspondence for organizations reporting to the Commissioner of Patents:

- Correspondence that is transmitted by facsimile must be directed to the central facsimile number, (703) 872-9306.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Further references of interest are cited on Form PLO-892, which is attachment to this office action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ellen Kim whose telephone number is (571) 272-2349. The examiner can normally be reached on Monday through Thursday.

Ellen E. Kim

Primary Examiner

July 25, 2005/EK